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论著

TLR2在红色毛癣菌感染中对角质形成细胞分泌γ-IFN和IL-8的影响

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摘要： 目的 观察红色毛癣菌刺激人角质形成细胞后γ-IFN及IL-8浓度的变化,以及TLR2对γ-IFN和IL-8分泌的影响。方法 用红色毛癣菌悬液分别刺激TLR2抗体处理前后的角质形成细胞,采用ELISA方法检测不同时间点细胞上清液中γ-IFN及IL-8的浓度,并设置阴性对照;比较TLR2抗体处理前后γ-IFN及IL-8浓度的变化。结果 红色毛癣菌刺激角质形成细胞后,γ-IFN及IL-8浓度明显升高(P<0.05),4 h即开始,至16 h达高峰;用TLR2抗体中和TLR2后,上清液中IL-8的浓度在2 h、4 h、8 h、16 h各时间点较中和前低,差异有统计学意义(P<0.05);γ-IFN的浓度2 h、4 h、8 h时间点较中和前低,差异有统计学意义(P<0.05),而在16 h时间点,上清液中γ-IFN的浓度与中和前比较略低,但差异没有统计学意义(P>0.05)。结论 红色毛癣菌刺激角质形成细胞后,可促进角质形成细胞分泌γ-IFN和IL-8;TLR2在角质形成细胞分泌γ-IFN和IL-8的过程中发挥重要的调节作用。

关键词： 角质形成细胞 红色毛癣菌 TLR2 γ-IFN IL-8

Effects of TLR2 on IL-8 and γ-IFN secretion of keratinocytes in *Trichophyton rubrum* infection

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Abstract: Objective Observe the change of γ-IFN and IL-8 secreted by keratinocytes after *Trichophyton rubrum* infection, and the effects of TLR2 on γ-IFN and IL-8 secretion. To explore the role of TLR2 in anti-dermatophytic infection.Methods Keratinocytes treated before and after anti-TLR2 monoantibody were stimulated by *Trichophyton rubrum*.The levels of γ-IFN and IL-8 in supernatant were determined with ELISA at different time points.Results The levels of γ-IFN and IL-8 secreted by kerainocytes were significantly increased after induced with *Trichophyton rubrum*(P<0.05).The level of γ-IFN reached(85.36±4.54) pg/mL at the point of 4h,and(445.58±13.99) pg/mL at 16 h; After treated with anti-TLR2 monoantibody, the levels of IL-8 were reduced at the points of 2 h,4 h,8 h and 16 h (P<0.05); and the levels of γ-IFN were reduced at the points of 2 h, 4 h and 8 h(P<0.05), but had no statistically significant reduction at the point of 16 h(P>0.05).Conclusion After stimulated keratinocytes,*Trichophyton rubrum* can promote its secretion of γ-IFN and IL-8; TLR2 play an important role onγ-IFN and IL-8 secretion of keratinocytes.

Keywords: keratinocyte *Trichophyton rubrum* TLR2 γ-IFN IL-8

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